



Virginia Information Technologies Agency



Information Technology Security in Virginia

September 8, 2004

expect the best



Commonwealth of Virginia Strategic Plan For Technology

- Design, develop, and implement a statewide security program and associated services
- Create a statewide information security office to include a cyber-incident response team and an IT security audit function
- Involve higher education in the statewide security program
- Develop evaluation tools for measuring cost savings



Today's Computing Environment

Dependent upon vulnerable computer systems

- Emergency response, power grid, traffic controls, dam controls, train switching
- Criminal records, medical information
- Paychecks, social security and welfare checks, stocks, money transfers
- Federal Reserve transfers
- International wire transfers





The Security Threat

Hackers for Hire

Buffer Overflows

Cyber Terrorism

Session Hijacking

Worms

Hacktivism

Viruses

Replay Attack

Port Scanning

Trojans

Proliferation of Hacker Tools

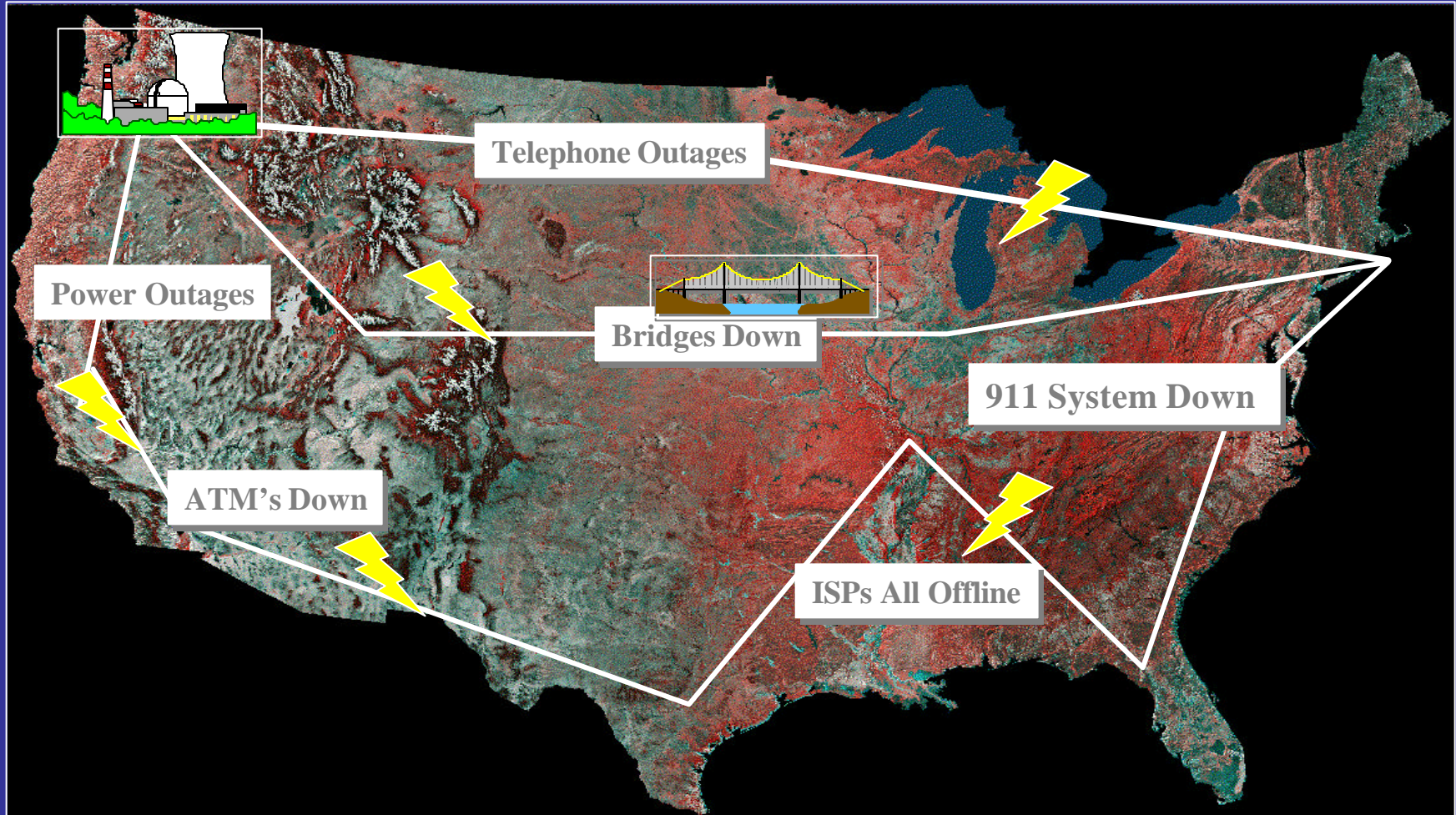
Spoofing

Denial of Service

Malicious Code

Man-in-the-middle

Imagine



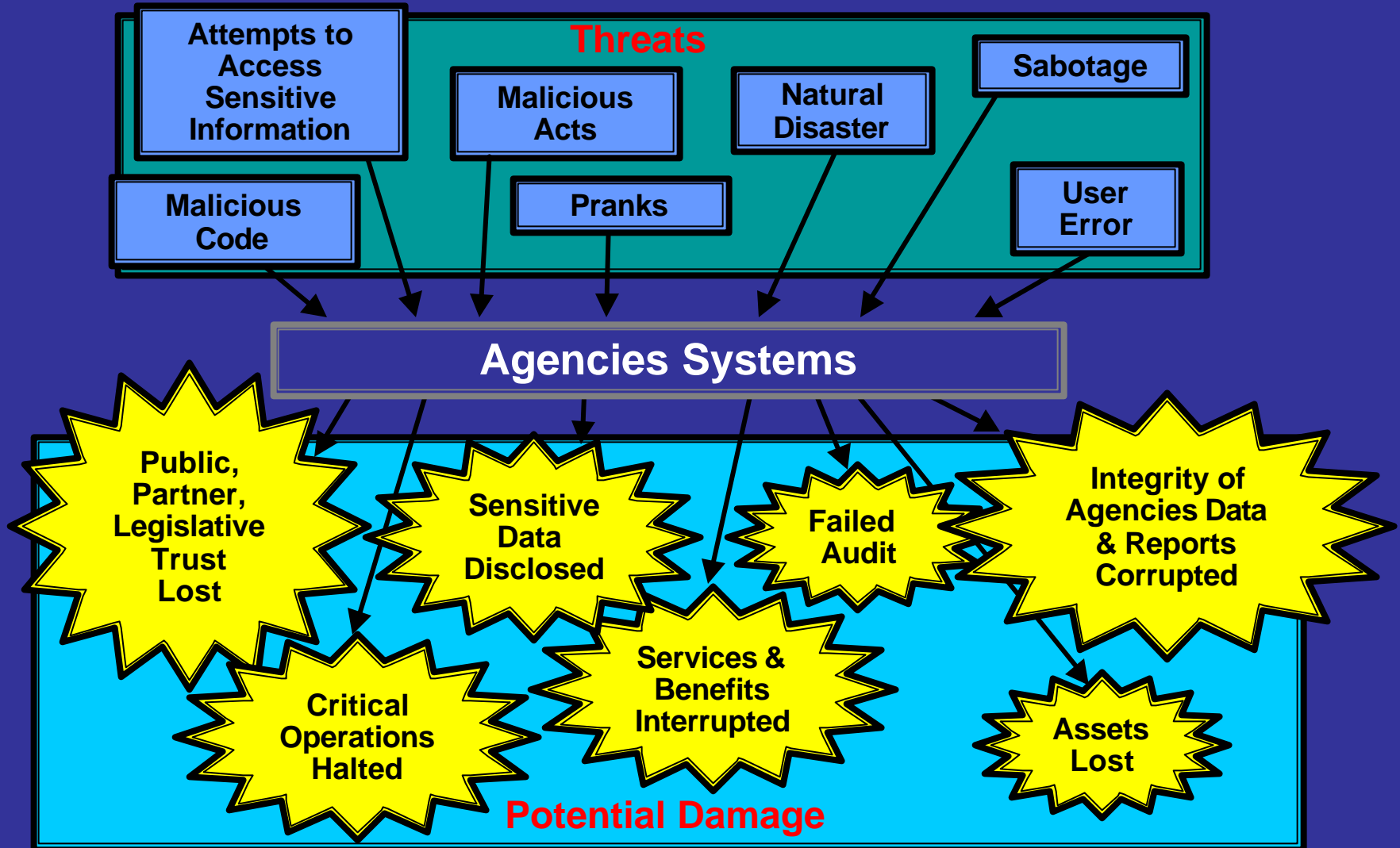
Unrelated events or strategic attack?



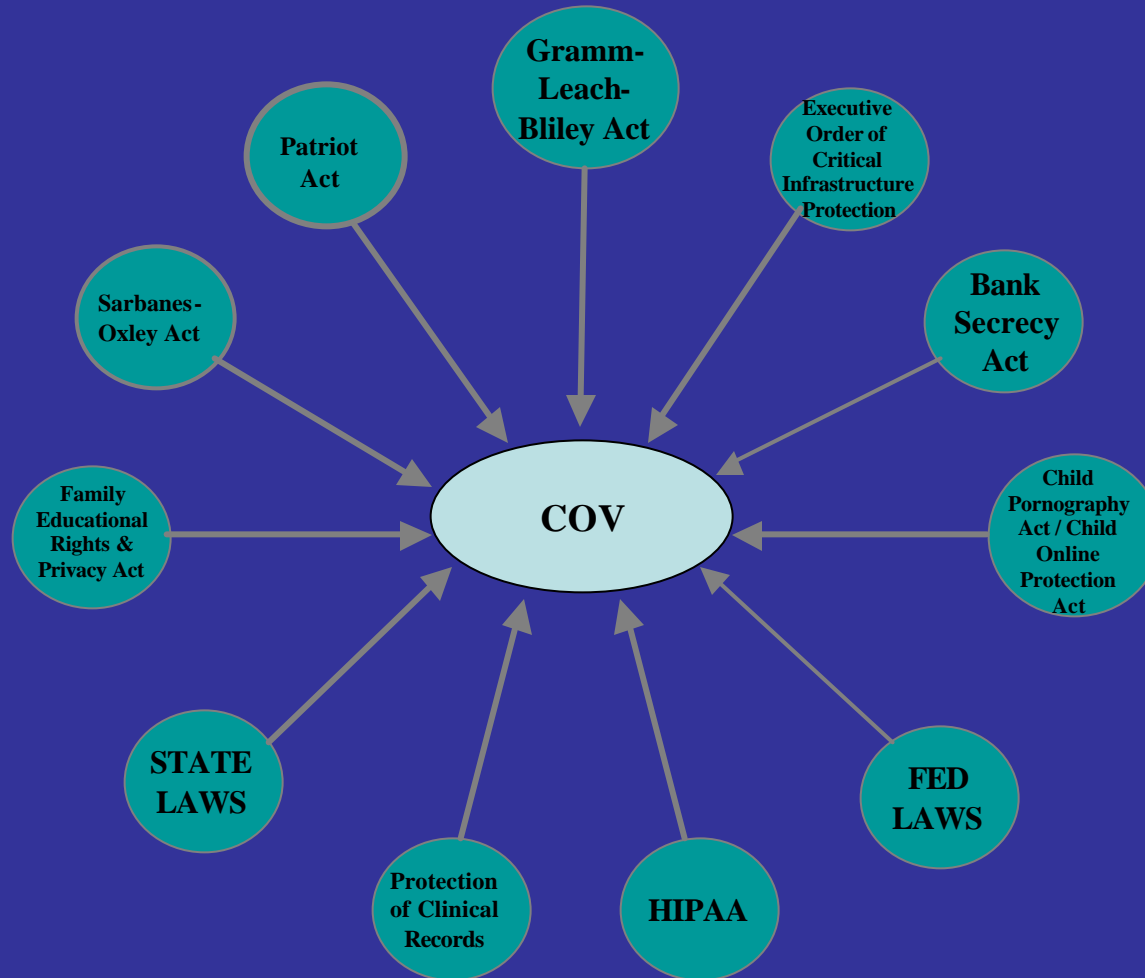
Risks Are Real

- Failure to comply with regulations
- Loss of public confidence
- Theft of sensitive information
- Financial fraud
- Liability issues
- Sabotage
- Espionage
- Malicious mischief

Enterprise Security Risks



Regulatory: Direct/Indirect Impact





Commonwealth Security Challenges

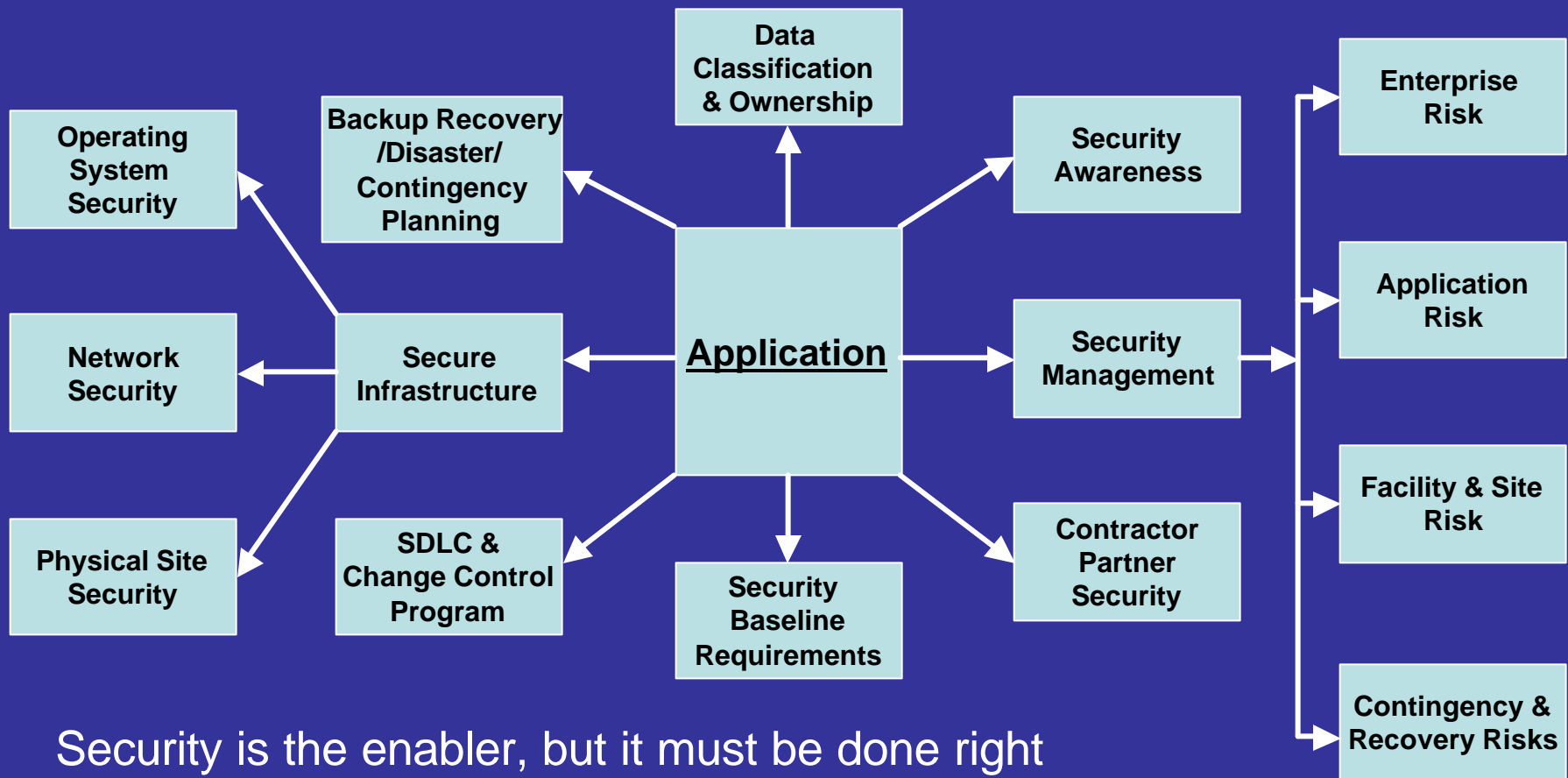
- Security Requirements
- Vendors/Supply Chain Partners
- Products
- Internet and E-mail
- Reactive, not proactive
- Classification levels
- Overcoming the past
- Resources
- Getting security involved early
- Protect while allowing the user to function
- Promote security as an enabler, not an obstacle



Security Philosophy

- Basic Principles
 - Protect confidentiality, integrity, and availability
 - Security is a critical enabler
- Defense in Depth
- Enterprise Information Assurance
 - Protect and defend information and information systems
- Risk Management via defined process

Security Integration



Security is the enabler, but it must be done right



Where We're Headed

- Enterprise Programs
 - Standards, Policies and Procedures
 - Secure Infrastructure and Technical Support
 - Critical Infrastructure Protection and Service Continuity
 - Risk Management
 - Information Security Training and Awareness
 - Incident Management

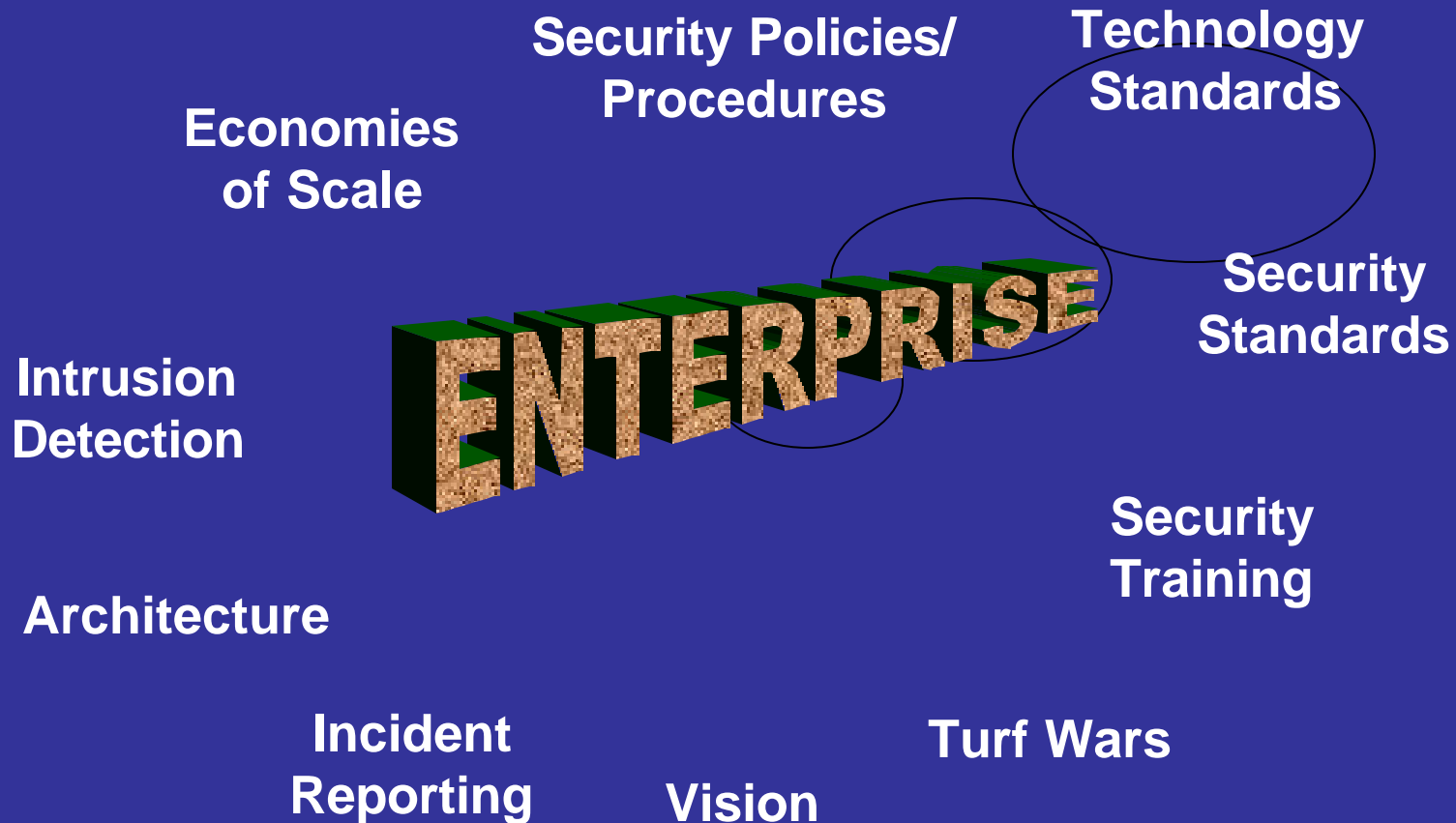


Where We're Headed

- Partnerships
 - Agencies
 - Higher Education
 - Contractors/Vendors
 - National Information Security Sources
 - Law Enforcement, FBI, Homeland Security
 - Other States



Statewide Security Office



Timeline

- Deployed in parallel to support the overall Program
- Enterprise Security Risk Assessment - 4/15/05
- Services:
 - Standards, Policies and Procedures - 1/31/05
 - Secure Infrastructure and Technical Support - 3/1/05
 - Critical Infrastructure and Business Continuity - 11/15/04
 - Risk Management - 6/1/05
 - Information Security Training and Awareness - 2/1/05
 - Incident Management
 - Stage 1 - 11/30/04
 - Stage 2 - 6/30/05



Contact Information

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